

PROG3

```
CREATE TABLE ACTOR(  
  ACT_ID INT PRIMARY KEY,  
  ACT_NAME VARCHAR(50),  
  ACT_GENDER CHAR);
```

```
CREATE TABLE DIRECTOR(  
  DIR_ID INT PRIMARY KEY,  
  DIR_NAME VARCHAR(50),  
  DIR_PHONE VARCHAR(20));
```

```
CREATE TABLE MOVIES(  
  MOV_ID INT PRIMARY KEY,  
  MOV_TITLE VARCHAR(50),  
  MOV_YEAR INT(4),  
  MOV_LANG VARCHAR(20),  
  DIR_ID INT,  
  FOREIGN KEY (DIR_ID) REFERENCES DIRECTOR(DIR_ID) ON DELETE CASCADE);
```

```
CREATE TABLE MOVIE_CAST(  
  ACT_ID INT,  
  MOV_ID INT,  
  ROLE VARCHAR(50),  
  FOREIGN KEY (ACT_ID) REFERENCES ACTOR(ACT_ID) ON DELETE CASCADE,  
  FOREIGN KEY (MOV_ID) REFERENCES MOVIES(MOV_ID) ON DELETE CASCADE,  
  PRIMARY KEY(ACT_ID,MOV_ID));
```

```
CREATE TABLE RATING(  
  MOV_ID INT PRIMARY KEY,  
  REV_STARS INT,  
  FOREIGN KEY (MOV_ID) REFERENCES MOVIES(MOV_ID) ON DELETE CASCADE);
```

```
INSERT INTO ACTOR VALUES (301, 'ANUSHKA', 'F');  
INSERT INTO ACTOR VALUES (302, 'PRABHAS', 'M');  
INSERT INTO ACTOR VALUES (303, 'PUNITH', 'M');  
INSERT INTO ACTOR VALUES (304, 'JERMY', 'M');
```

```
INSERT INTO DIRECTOR VALUES (60, 'RAJAMOULI', '8751611001');  
INSERT INTO DIRECTOR VALUES (61, 'HITCHCOCK', '7766138911');  
INSERT INTO DIRECTOR VALUES (62, 'FARAN', '9986776531');  
INSERT INTO DIRECTOR VALUES (63, 'STEVEN SPIELBERG', '8989776530');
```

```
INSERT INTO MOVIES VALUES (1001, 'BAHUBALI-2', 2017, 'TELUGU', 60);  
INSERT INTO MOVIES VALUES (1002, 'BAHUBALI-1', 2015, 'TELUGU', 60);  
INSERT INTO MOVIES VALUES (1003, 'AKASH', 2008, 'KANNADA', 61);  
INSERT INTO MOVIES VALUES (1004, 'WAR HORSE', 2011, 'ENGLISH', 63);
```

```
INSERT INTO MOVIE_CAST VALUES (301, 1002, 'HEROINE');  
INSERT INTO MOVIE_CAST VALUES (301, 1001, 'HEROINE');  
INSERT INTO MOVIE_CAST VALUES (303, 1003, 'HERO');  
INSERT INTO MOVIE_CAST VALUES (303, 1002, 'GUEST');  
INSERT INTO MOVIE_CAST VALUES (304, 1004, 'HERO');
```

```
INSERT INTO RATING VALUES (1001,4);  
INSERT INTO RATING VALUES (1002,2);
```

```
INSERT INTO RATING VALUES (1003, 5);
INSERT INTO RATING VALUES (1004, 4);
```

```
Q1:
SELECT MOV_TITLE
FROM MOVIES
WHERE DIR_ID IN (SELECT DIR_ID FROM DIRECTOR
WHERE DIR_NAME='HITCHCOCK');
```

```
Q2:
SELECT M.MOV_TITLE
FROM MOVIES M
JOIN MOVIE_CAST MV ON M.MOV_ID = MV.MOV_ID
WHERE MV.ACT_ID IN (
    SELECT ACT_ID
    FROM MOVIE_CAST
    GROUP BY ACT_ID
    HAVING COUNT(ACT_ID) > 1
)
GROUP BY M.MOV_TITLE
HAVING COUNT(*) > 1;
```

```
Q3:
SELECT A.ACT_NAME, M.MOV_TITLE, M.MOV_YEAR
FROM ACTOR A
JOIN MOVIE_CAST C ON A.ACT_ID = C.ACT_ID
JOIN MOVIES M ON C.MOV_ID = M.MOV_ID
WHERE A.ACT_ID IN (
    -- Select actors who acted in a movie before 2000
    SELECT C1.ACT_ID
    FROM MOVIE_CAST C1
    JOIN MOVIES M1 ON C1.MOV_ID = M1.MOV_ID
    WHERE M1.MOV_YEAR < 2000
)
AND A.ACT_ID IN (
    -- Select actors who acted in a movie after 2015
    SELECT C2.ACT_ID
    FROM MOVIE_CAST C2
    JOIN MOVIES M2 ON C2.MOV_ID = M2.MOV_ID
    WHERE M2.MOV_YEAR > 2015
);
```

```
Q4:
SELECT MOV_TITLE, MAX(REV_STARS)
FROM MOVIES
INNER JOIN RATING USING (MOV_ID) GROUP
BY MOV_TITLE
HAVING MAX(REV_STARS)>0
ORDER BY MOV_TITLE;
```

```
Q5:
UPDATE RATING
SET REV_STARS = 5
WHERE MOV_ID IN (
    SELECT MOV_ID
    FROM MOVIES
    WHERE DIR_ID IN (
        SELECT DIR_ID
        FROM DIRECTOR
        WHERE DIR_NAME = 'STEVEN SPIELBERG'
```

);